ORB Report
Wednesday 2003 January 17

- **Main topic discussed: Status of Monte Carlo and prioritization of requests (over half the meeting)**
  - Ironically, Iain was not present
  - Issues that need answers and were submitted to Iain for comment
    - How many events/day being processed
    - Is the new heirarchy acceptable?
      - There is some doubt that the prioritization is really used
    - ID groups definitely should get higher priority but…
      - Only if they are using MC for Moriond certification!
    - No clear management management of jobs & priority
  - The Calorimeter Task Force problem (Leslie & Marek)
    - Recommendation delayed until Feb 15th so this will not help the Moriond analyses (later for p14)
    - CTF asked to expedite requests & minimize events processed so the UTA farms could be freed up - about 20% of the total

Monte Carlo Status of Thursday

Group	Weight	Processed Ev	Weighted Ev	Next Job
B	1	55000	55000	0
D0	0	812005	8120050	3113
Heavy Flavor	5	405000	81000	0
Higgs	1	150000	150000	2986
Jet Energy	5	660000	132000	3558
New Phenom	1	135000	135000	3604
Top	1	130000	130000	3143
WZ	1	150000	150000	3481

- All groups except for B have about the same number of events over a week period
- There is a MC Status Page:

http://www-d0.fnal.gov/computing/mcprod/request_details/Request.html

- There is also a SAM MC Query Page:

http://d0db.fnal.gov/sam_data_browsing/mcRequestQuery.html

  - You can use one, the other or both to browse

More on Monte Carlo Production

- Some answers (by email)
  - Why are D0 QCD jobs still running although it was generally agreed that these are not being used by the Physics groups?
    - Not completed, not running, there is some lag in the system.
  - It was felt that weights favor groups submitting small number of large jobs so that once started, it would prevent smaller requests from other groups.
    - The weighting gives advantage to the ID groups. Once you get your jobs running, a large number of small jobs will run…
  - How do we avoid a last minute crunch on MC generation for future conference deadlines?
    - Problem was in the production release schedule. If we had converged quicker, we would have had at least an extra four weeks to run the code. Blame the development cycle.

Statistics for January MC Production

	Week 1	Week 2	Week 3
Per Week	631703	964634	195750
Running Total	631703	1596337	1792087

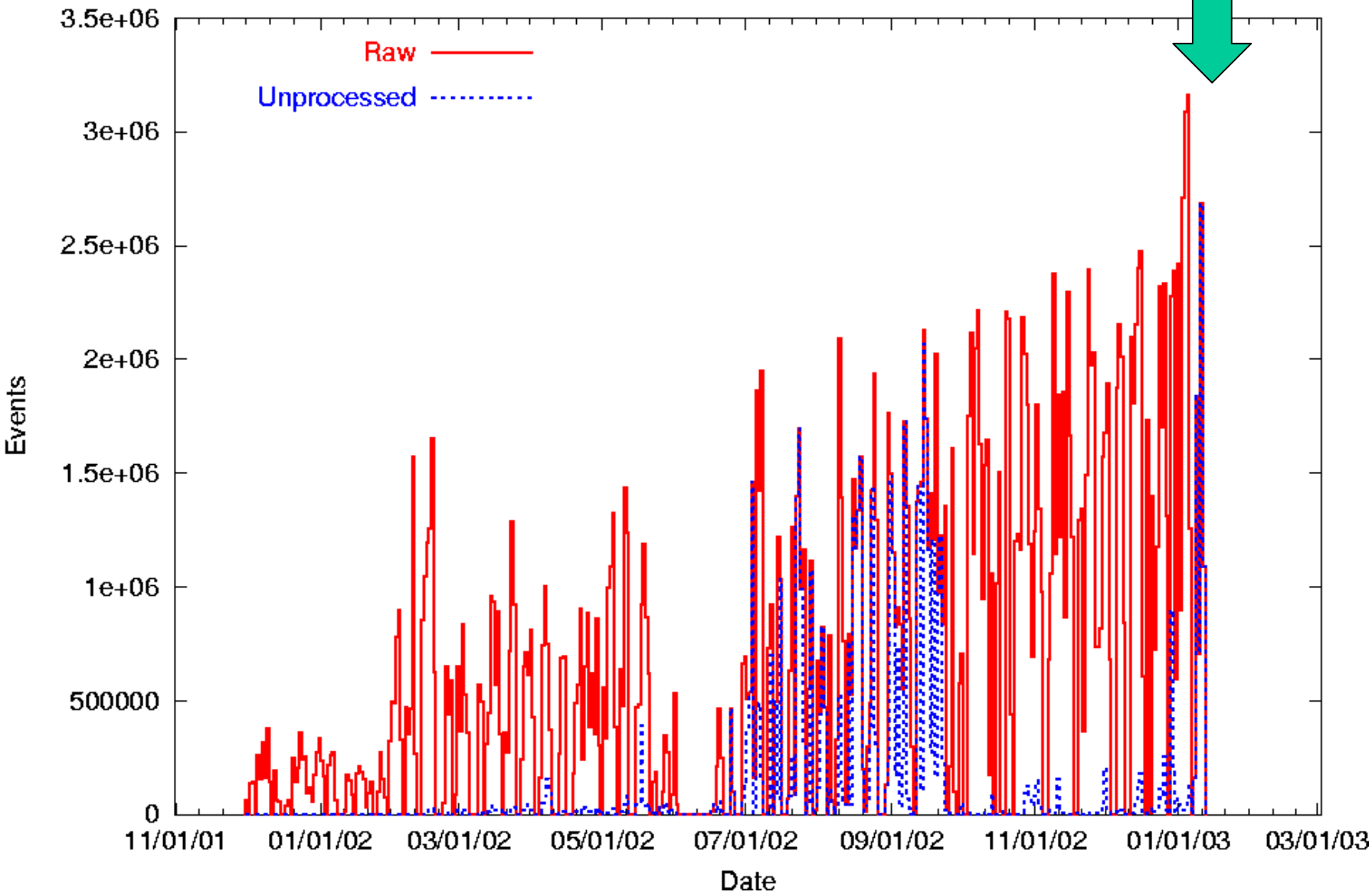
Avg/day ~ 100k

Status of Reconstruction

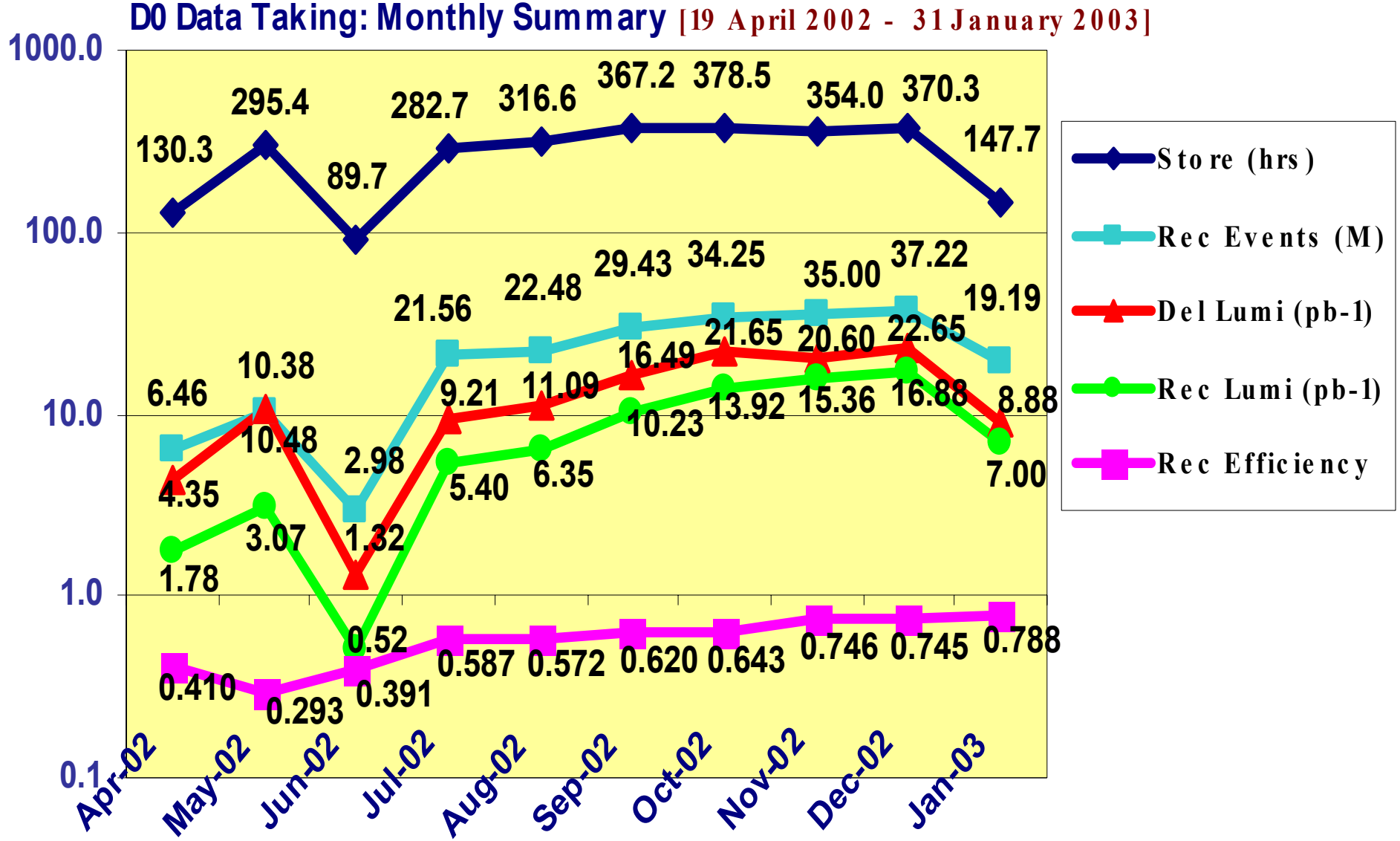
- p13.05 has been on the farm since December 14th
- Everything back to Nov 4th has already been processed with either p13.04 or p13.05
  - Estimate they will process everything from Sep 23rd to the beginning of the shutdown by January 26th
    - I guess this is an arbitrary deadline for Moriond
    - See next slide for numbers on total possible luminosity sample
  - Recorded Normalizable Luminosity from Sep 23 – Jan 12
    - 54.65 pb^{-1} and 128 Million Physics Events
  - There is a problem with the last three days of data which is comprised of 1.7 pb^{-1} & 4 M Physics Events
    - We switched to trigger version global_CMT-10.00 which used production p13.06.01 on the L3 farm nodes
    - There is a conflict in the L3 header which causes the data farms to crash – may not be resolved until they move to new Reco

D0 Farm Backlog

up to 13-Jan-2002



D0 Monthly Data Taking



Integrated Luminosity (pb-1)

Delivered = 126.7 Utilized = 113.7 Recorded = 80.5

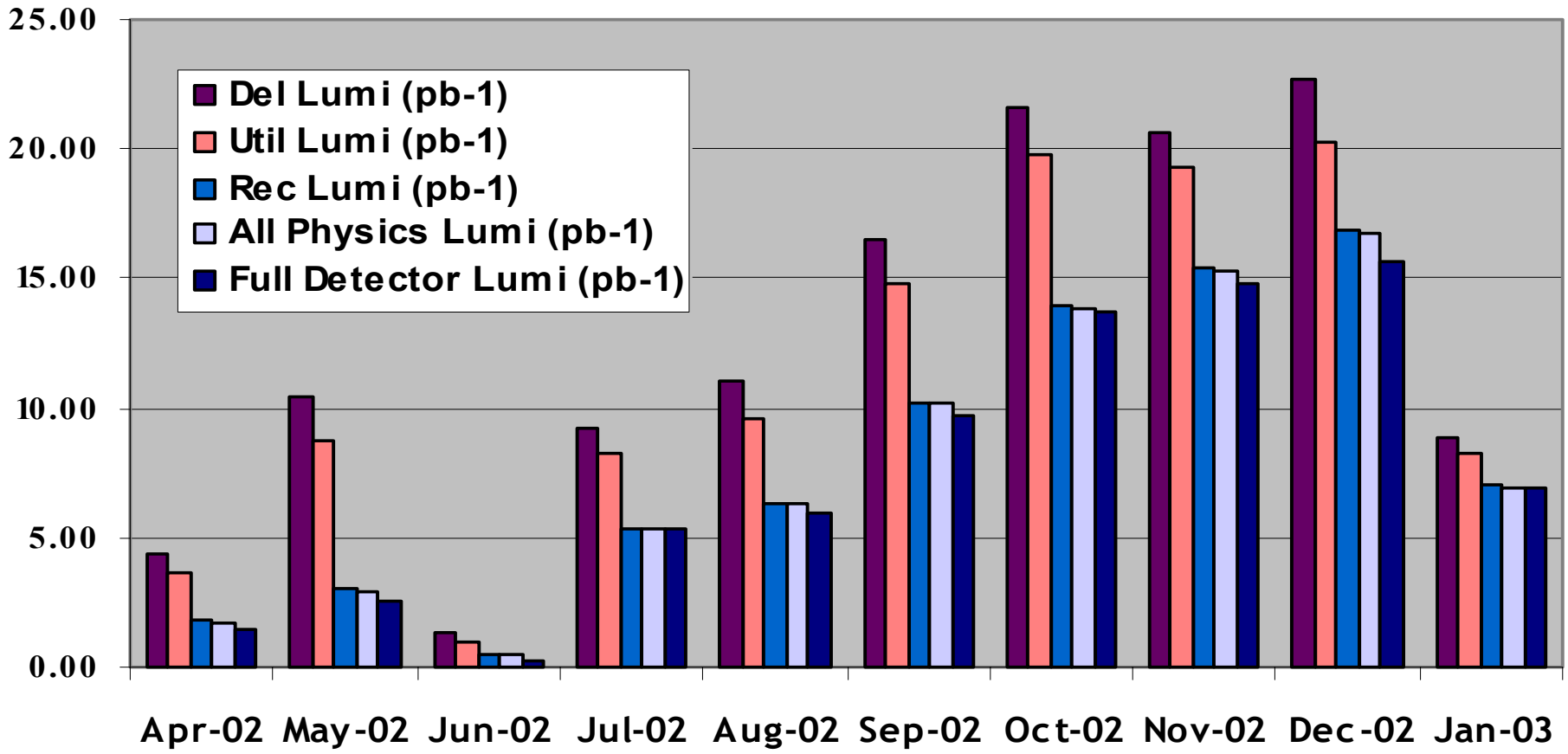
All Physics = 79.8 (63.0% Efficiency)

Full Detector = 76.2 (60.2% Efficiency)

Physics Events to Tape (Millions)

All = 215.2 Full Detector = 204.3

Normalizable Luminosity for 19-Apr-2002 through 12-Jan-2003



CAB & SAM

- Request to make medium queue on CAB for non-SAM jobs
  - Coordinate between CAB, clued0 and d0tools
- Problem with shared library on Redhat 7.1 which is the source of batch system grief on clued0
  - Roger Moore is working on a patch
- SAM: access to MC Production putting stress on dbserver
  - Possibly a bug in the new MC Request System
  - Problem with Iain's dataset definitions?
    - Number of parameters inserted on order of ~100k/week so the params table has grown to 2.8 million!
    - Still investigating scope of problem & short/long term solution